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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/711,081	08/20/2004	Dennis Scott Prince	5080		
23971 BENNETT JO	7590 05/08/2007 NES		EXAM	INER	
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4500 BANKERS HALL EAST 855 - 2ND STREET, SW		ART UNIT	PAPER NUMBER		
	CALGARY, AB T2P 4K7		2856		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	10/711,081	PRINCE, DENNIS SCOTT			
Office Action Summary	Examiner	Art Unit			
· · · · · · · · · · · · · · · · · · ·	Tamiko D. Bellamy	2856			
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	OATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	l. hely filed the mailing date of this communication.  O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17 A	April 2007.	•			
· · · · · · · · · · · · · · · · · · ·					
, ' <u></u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		•			
• 4)⊠ Claim(s) <u>1-4,6-15,17,18 and 27</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-4,6-15,17,18 and 27</u> is/are rejected.					
7) Claim(s) is/are objected to.	·				
8) Claim(s) are subject to restriction and/o	or election requirement.	•			
Application Papers	,				
9) The specification is objected to by the Examin	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the E					
Priority under 35 U.S.C. § 119		•			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a)	)-(d) or (f).			
1. Certified copies of the priority documen	its have been received.				
2. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Burea					
* See the attached detailed Office action for a lis	t of the certified copies not receive	ed.			
Attachment(s)	A) [] Intention Commen	(PTO 413)			
1) Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  1) Interview Summary (PTO-413)  Paper No(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

Art Unit: 2856

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-4, 6-15, 17, 18, and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Schatzmann et al. (5,832,411)

Re claim 1, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses superimposing know emission concentrations (e.g., known calibration fluid) upon the sensors (24) during a monitoring cycle to enhance the sensor sensitivity (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Art Unit: 2856

Re claim 2, as depicted in figs. 1 and 5, Schatzmann et al. discloses portable sensors (e.g., sensor units (12/152) including a sensor array (24)) (Col. 5, lines 17-67; Col 11, lines 13-24).

Re claim 3, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring the emission changes in readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses superimposing know emission concentrations (e.g., known calibration fluid) upon the sensors (24) during a monitoring cycle to enhance the sensor sensitivity (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses including data related to wind speed and direction (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 4, Schatzmann et al. electrochemical sensors Col. 4, lines 36-64).

Re claim 6, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses superimposing a gas compound (e.g., known calibration fluid) that will react with the emissions and the sensors (24/12) to isolate a signal of

Art Unit: 2856

emissions (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 7, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses superimposing a gas compound (e.g., known calibration fluid) that will react with a gas that causes interference and isolate a signal of emissions (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 8, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses superimposing a gas compound (e.g., known calibration fluid) that will coat the surface of the sensors (24) that make the sensors hypersensitive to

Art Unit: 2856

specific emissions (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 9, Schatzmann et al. discloses varying the superimposed emissions concentration (e.g. known calibration fluid) (Col. 6, lines 17-26).

Re claim 10, as depicted in fig. 2, Schatzmann et al. a filter (74).

Re claim 11, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses multiple redundant sensors being used to improve accuracy and identify sensors with erroneous readings (Col. 6, lines 56-65). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 12, Schatzmann et al. discloses sensors (18,24) are tuned to measure different gases (Col. 4, lines 36-48).

Re claim 13, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-

Art Unit: 2856

67; Col. 4, lines 1-35). Schatzmann et al. discloses providing a humidity module (20) (Col. 3, lines 60-67). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 14, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-48). Schatzmann et al. discloses using filters (74). Schatzmann et al. discloses superimposing know emission concentrations (e.g., known calibration fluid) upon the sensors (24) during a monitoring cycle to enhance the sensor sensitivity (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses including data related to wind speed and direction (Col. 9, lines 62-67; Col. 10, lines 1-17).

Re claim 15, as depicted in figs. 1 and 5, Schatzmann et al. discloses portable sensors (e.g., sensor units (12/152) including a sensor array (24)) (Col. 5, lines 17-67; Col 11, lines 13-24).

Re claim 17, Schatzmann et al. discloses superimposing know emission concentrations (e.g., known calibration fluid) upon the sensors (24) to verify calibration.

Art Unit: 2856

Re claim 18, as depicted in fig. 5, Schatzmann et al. discloses providing a humidity module (20) (Col. 3, lines 60-67).

Re claim 27, as depicted in figs. 1, 2, and 5, Schatzmann et al. discloses positioning a sensor array (e.g., sensor units (12) including a sensor array (24)) of emission sensors (e.g., vapor sensing) in spaced relation at fixed location about a facility and monitoring changes in emission readings from the sensors (12/152) (Col. 3, lines 48-67; Col. 4, lines 1-35). Schatzmann et al. discloses monitoring changes in emission readings from the sensors and the direction of the increased emissions (Col. 9, lines 62-67; Col. 10, lines 1-17). Schatzmann et al. discloses superimposing know emission concentrations (e.g., known calibration fluid) upon the sensors (24) during a monitoring cycle to enhance the sensor sensitivity (Col. 6, lines 17-26). Schatzmann et al. discloses performing a spatial temporal emission concentration analysis to identify the source of emissions (Col. 9, lines 62-67; Col. 10, lines 1-17).

### Response to Arguments

- 3. Applicant's arguments with respect to claims 1-4, 6-10, 12 and 17 have been considered but are most in view of the new ground(s) of rejection.
- 4. The indicated allowability of claims 11, 14-15, 17, and 18 is withdrawn in view of the newly discovered reference(s) to Schatzmann et al. It is the examiners position that claims 1-4, 6-15, 17, 18, and 27 are not patentable in view of the newly applied art of Schatzmann et al. (5,832,411).

Art Unit: 2856

### Conclusion

Page 8

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamiko D. Bellamy whose telephone number is (571) 272-2190. The examiner can normally be reached on Monday - Friday 7:30 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tamiko Bellamy

T.B. May 02, 2007

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Art Unit: 2856

Page 9